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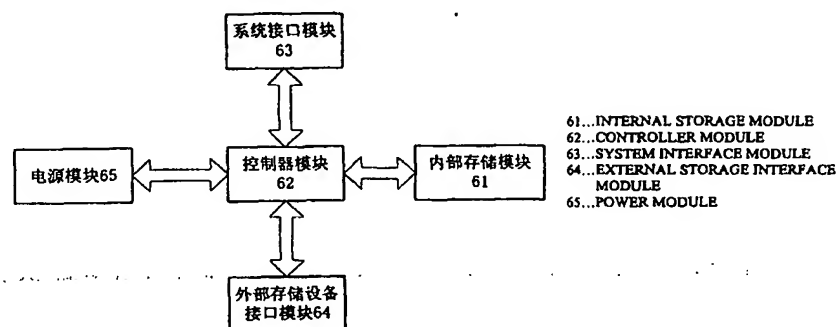
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所引用双字母代码和其它缩写符号, 请参考刊登在每期PCT公报期刊起始的“代码及缩写符号简要说明”。

(54) Title: DEVICE AND METHOD FOR PROVIDING DATA EXCHANGE AND STORAGE

(54) 发明名称: 数据交换及存储装置及其方法



(57) Abstract: The invention relates to a device and method for providing data exchange and storage. The said device includes a controller module (62) which includes a firmware for controlling operation of each modules in the said data exchange and storage device (60) and performing data processing and information exchange; and an internal storage module (61) for storing data under controlling of the said controller module (62); and a system interface (63) module connecting with system interface and performing data exchange with the said data processing system (10) under controlling of the said controller module (62); and an external storage interface module (64) connecting with external storage equipment and performing data exchange with the external storage equipment under controlling of the said controller module (62). The device can accomplish connection with data processing system of various type interfaces and external storage equipment of various type interfaces. The device can also implements function that the data processing system access to the interior storage module and the external storage equipment, thereby the device of invention can be named an individual moveable storage center for users.

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**(57) 摘要**

本发明提供一种数据交换及存储装置及其方法。所述装置包括控制器模块(62)，包含有固化软件，用于控制所述数据交换及存储装置(60)中各模块的操作，和进行数据处理和信息交换；内部存储模块(61)，在所述控制器模块(62)的控制下存储数据；系统接口模块(63)，与数据处理系统(10)连接，并在所述控制器模块(62)的控制下与所述数据处理系统(10)进行数据交换；外部存储设备接口模块(64)，与外部存储设备连接，并在所述控制器模块(62)的控制下与所述外部存储设备进行数据交换。本发明的装置可实现与不同接口类型的数据处理系统和多种不同类型的外部存储设备的连接，还可实现数据处理系统对内部存储模块和外部存储设备的数据存取功能，从而使本发明的装置可以作为用户的个人移动存储中心。

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN03/00823

## A. CLASSIFICATION OF SUBJECT MATTER

G06F12/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06F12/00 (IPC7)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
the chinese documents since 1985

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC, CNPAT, PAJ control+, interface, storag+, IEEE 1394, USB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN2513159Y(abstract, Fig 1 to 4)	1-19
X	CN1367438A(abstract, Fig 1 to 4)	1-19
X	EP1146428 A1(abstract, Page 3 column 33 to Page 4 column 51, Fig 2 and Fig 7)	1-19

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

## \* Special categories of cited documents:

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